

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A sprayable, fiber-reinforced, strain-hardening hydraulically settable mortar, comprising:

- a) a cement fraction comprising one or more hydraulically setting cements;
- b) a strain-hardening amount ~~[[and]]~~ of from 0.1 to less than 4.0 volume percent of matrix interactive reinforcing fibers having a length of from about 4mm to about 30 mm, a fiber diameter of between 10 μm , and 150 μm , and interfacial chemical bonding of less than 4.0 J/m²;
- c) at least one non-Newtonian additive in an amount to provide a mortar viscosity such that the mortar remains pumpable and sprayable, but exhibits a higher viscosity after spraying;
- d) water in a ratio of water to the hydraulically setting cement fraction of 0.2:1 to 0.6:1;
- e) a superplasticizer in an amount effective to provide a pumpable and sprayable mortar at the water content used;
- f) ~~optionally~~ a viscosity control agent in an amount of from 0.1 up to about 5 weight percent; and
- g) optionally, aggregate in an amount up to about 200% by weight relative to the weight of the sprayable mortar.

2. (Original) The sprayable mortar of claim 1, wherein said non-Newtonian additive comprises an inorganic non-Newtonian additive.

3. (Currently Amended) The sprayable mortar of claim 1, wherein ~~said~~ at least one non-Newtonian additive ~~comprises~~ is calcium aluminate cement.

4. (Currently Amended) The sprayable mortar of claim 1, wherein ~~said~~ at least one non-Newtonian additive ~~comprises~~ is an organic polymer.

5. (Currently Amended) The sprayable mortar of claim 1 wherein ~~said~~ at least one non-Newtonian additive ~~comprises~~ is an associative thickener.

6. (Original) The sprayable mortar of claim 1 wherein said reinforcing fibers are present in an amount of 0.7 to 3.0 volume percent.

7. (Original) The sprayable mortar of claim 1 wherein said reinforcing fibers are present in an amount of 1.5 to 2.5 volume percent.

8. (Currently Amended) The sprayable mortar of claim 1, wherein said reinforcing fibers comprise one or more fibers selected from the group consisting of polyarylamide fibers, high ~~density~~ modulus polyethylene fibers, and polyvinylalcohol fibers.

9. (Original) The sprayable mortar of claim 1 which exhibits a strain of at least 0.5%.

10. (Original) The sprayable mortar of claim 1 which exhibits a strain of at least 1.0%.

11. (Original) The sprayable mortar of claim 1 which exhibits a strain of at least 1.5%.

12. (Original) The sprayable mortar of claim 1, wherein said viscosity control agent comprises at least one viscosity control agent selected from the group consisting of modified celluloses and polyvinylalcohol.

13. (Currently Amended) The sprayable mortar of claim 1, comprising 1 part of cements including 0.95 parts Portland cement and 0.5 part calcium aluminate cement as a non-Newtonian additive, water in a water to cement ratio of 0.46, sand in a sand to cement ratio of 0.80, fly ash in a fly ash to cement ratio of 0.30, carboxymethyl cellulose in a carboxymethyl cellulose to cement ratio of 0.0005, superplasticizer at a superplasticizer to cement ratio of 0.0075, and 2.0 volume percent polyvinyl alcohol fibers, all parts and ratios being by weight.

14 - 17. (Cancelled).